UPPER MISSOURI RIVER BREAKS Listing of Significant Objects

Areas of Special Management

Name: Upper Missouri National Wild and Scenic River (UMNWSR)

Description: Congress designated 149 miles of the Upper Missouri as a component of the National Wild and

Scenic River System in 1976 calling it an irreplaceable legacy of the historic American West. Congress further stated that the river, with its immediate environments, possesses outstanding scenic, recreational, geological, fish and wildlife, historic, cultural, and other similar values. BLM was directed to preserve the Upper Missouri River in a free-flowing condition and protect it for the benefit of present and future generations. Many of the items listed in this document are the same objects that were used to determine the significance and need for the Wild and

Scenic designation.

Location: The UMNWSR boundary starts at Fort Benton, Montana and runs 149 miles downstream to

Kipp Recreation Area.

Significance: National

Source: Public Law 94-486, October, 1976.

Name: Cow Creek Island Area of Critical Environmental Concern (ACEC)

Description: The 19,746-acre Cow Creek ACEC contains segments of the Nez Perce National Historic Trail,

the Cow Island Trail and the Lewis and Clark National Historic Trail. It also includes portions

of the Cow Creek Wilderness Study Area.

Location: Southeastern Blaine County.

Significance: Regional

Source: West HiLine RMP/EIS, Final 1988.

Name: Charles M. Russell (CMR) National Wildlife Refuge

Description: The western end of the CMR National Wildlife Refuge borders the last 10 miles of the Upper

Missouri National Wild and Scenic River. It includes native prairies, forested coulees, river bottoms and badlands that were often portrayed in paintings by artist Charles M. Russell. The refuge is managed primarily for wildlife habitat and includes large populations of elk, sharptail grouse and many other wildlife species. The refuge also preserves cultural, archeological and paleontological resources and provides wildlands recreation opportunities. The James Kipp Recreation Area/campground is within the Refuge. The recreation area is managed by the BLM

as a fee demonstration site and receives heavy use during peak seasons.

Location: At the eastern end of the UMNWSR in Fergus and Phillips County, Montana. The CMR

National Wildlife Refuge is managed by USFWS.

Significance: National

Source: Upper Missouri National Wild and Scenic River Management Plan update, 1993.

Name: James Kipp Recreation Area

Description: The Kipp Recreation Area is a campground at the terminus of the 149-mile UMNWSR. The

210-acre site is totally surrounded by lands managed by the U.S. Fish and Wildlife Service, Charles M. Russell National Wildlife Refuge. Although the existing recreation area is located on Corps of Engineers land, the BLM has a long-term lease to manage the recreation area which includes a boat ramp and fish cleaning station, campsites, potable water, sewage dump station

and vault toilets.

Location: Terminus point of UMNWSR.

Significance: Regional

Source: James Kipp Recreation Area Management and Project Plan, 1996.

Name: Cow Creek Wilderness Study Area

Description: This WSA covers 34,050 acres on the north side of the Missouri River. 21,590 acres have been

recommended as suitable for wilderness designation. The size of the area, opportunities for solitude and primitive recreation, and the attractiveness of the setting combine to provide excellent wilderness quality. A diversity of recreational opportunities makes this area excellent for primitive recreational use, and a four-mile-long sheer wall of sandstone is an outstanding

scenic feature.

Location: Blaine and Phillips Counties, Montana

Significance: National

Source: Montana Statewide Wilderness Study Report, September 1991

Name: Stafford Wilderness Study Area

Description: This WSA covers 4,800 acres on the north side of the Missouri River. More than 90 percent of

the WSA is within a rugged portion the UMNWSR corridor. None of this WSA was recommended for wilderness designation because its small size and configuration allows it to be affected by offsite sights and sounds, and because of a high potential for natural gas development. This WSA contains isolated areas that offer outstanding opportunities for solitude, but

does not contain outstanding primitive recreation opportunities.

Location: Chouteau and Blaine Counties, Montana

Significance: Regional

Source: Montana Statewide Wilderness Study Report, September 1991.

Name: Ervin Ridge Wilderness Study Area

Description: The WSA covers 10,200 acres on the north side of the Missouri River. 5,061 acres along the

southern boundary of the WSA are within a wild segment of the UMNWSR corridor. None of this WSA was recommended for wilderness designation due to a variety of resource conflicts and manageability concerns including a high potential for natural gas development. The area is

very scenic and rugged, combining steep slopes with narrow ridges.

Location: Blaine County, Montana

Significance: Regional

Source: Montana Statewide Wilderness Study Report, September 1991.

Name: Dog Creek South Wilderness Study Area

Description: The WSA is on the south side of the Missouri River and contains 5,150 acres. 3,902 acres are

within the UMNWSR corridor. None of this WSA was recommended as suitable for wilderness designation due to the high potential for natural gas development and the potential for wilderness management conflicts. The small size of this area, along with terrain that opens to major off-site influences just beyond its boundaries, limits the opportunities for outstanding solitude

to isolated areas in the deeper drainages.

Location: Fergus County, Montana

Significance: Regional

Source: Montana Statewide Wilderness Study Report, September 1991.

Name: Woodhawk Wilderness Study Area

Description: This 8,100-acre WSA is on the south side of the Missouri River. About 3,500 acres of the WSA

are within the UMNWSR corridor. None of the WSA was recommended as suitable for wilderness designation due to a combination of the unit's small size, the a cherry-stemmed road running through the WSA, and several resource conflicts. It has a high potential for natural gas reserves. The WSA has colorful broken topography, and several prehistoric occupation sites are in the area. During the steamboat era, woodhawkers (wood cutters) cut timber to fuel steamboats plying the Missouri River. The Nez Perce Indians probably traversed the area in their

attempt to escape to Canada in 1877.

Location: Fergus County, Montana

Significance: Regional

Source: Montana Statewide Wilderness Study Report, September 1991.

Name: Antelope Creek Wilderness Study Area

Description: The WSA covers about 12,350 acres on the north side of the Missouri River. 9,600 acres have

been recommended for wilderness. This WSA offers outstanding opportunities for solitude and provides a diversity of primitive recreational opportunities such as hiking, photography, hunting, and rock climbing. The area is rich in historical significance, including Kid Curry's

Outlaw Hideaway.

Location: Phillips County, Montana

Significance: National

Source: Montana Statewide Wilderness Study Report, September 1991.

Name: Lewis and Clark National Historic Trail

Description: The Lewis and Clark Trail was designated a segment of the National Historic Trail System in

1978. The expedition passed through the Missouri Breaks area in May 1805 and on the return trip in July 1806. Lewis writes about the "white cliffs" and the "breaks" in his journals as the expedition traveled and camped along the Missouri. As a key component of trail, the UMNWSR has received a great deal of attention, and visitor use will undoubtedly increase exponentially as we approach the bicentennial. It is one of the few landscapes along the entire Lewis and Clark National Historic Trail that has remained relatively unchanged since the Lewis

and Clark Expedition passed through this area.

Location: 12 Lewis and Clark campsites along river corridor

Significance: National

Source: Lewis and Clark National Historic Trail, Comprehensive Plan for Management and Use, January

1982.

Name: Nez Perce (Nee-Me-Poo) National Historic Trail

Description: The Nez Perce National Historic Trail, which crosses the Missouri River Breaks, was designated

a component of the National Historic Trail System in 1986. The 1,170-mile route was used by the Nez Perce Indians in an attempt to escape to Canada in 1877. Their escape was marked by more than 20 battles and skirmishes. The Cow Island skirmish, which occurred in the Missouri River Breaks on September 23, 1877, was the last encounter prior to the Nez Perce

surrender at the Battle of the Bear Paw just north of the Breaks.

Location: Fergus and Blaine Counties, Montana

Significance: National

Source: Nez Perce (Nee-Me-Poo) National Historic Trail Study Report, 1982; Nez Perce NHT Compre-

hensive Plan, 1990.

Name: Upper Missouri National Wild and Scenic River Watchable Wildlife Area

Description: The entire UMNWSR was designated a Watchable Wildlife Area in 1990 because of the unique

and diverse wildlife populations that abound along the river. Visitors come from around the

world to view the wildlife.

Location: UMNWSR corridor

Significance: Regional

Source: Montana Wildlife Viewing Guide, Carol and Hank Fischer, 1995.

Name: Missouri Breaks Back Country Byway

Description: The Missouri Breaks Back Country Byway was designated in 1993. The Byway has more than

75 miles of gravel and unimproved roads that traverse portions of the Missouri River Breaks

and lead to scenic overlooks of the UMNSWR.

Location: UMNWSR Significance: National

Source: Section 1047 of the Intermodal Surface Transportation Efficiency Act, 1991; BLM Manual H-

8357-1.

Name: Fort Benton National Historic Landmark

Description: The American Fur Company established this trading post in 1846, hoping to secure trade with

the Blackfeet Nation. Fort Benton served as a northwest gateway for trade. The railroad replaced the river traffic in the 1880s, and trade trails became a thing of the past. Fort Benton was designated a National Historic Landmark in 1961 for its significant role in the settlement of the western frontier. Fort Benton's historic resources made it eligible for listing in the National

Register of Historic Places in 1966.

Location: Fort Benton, Montana

Significance: National

Source: Montana Historical Society.

Areas of Prehistoric Interest

Name: Hart Spring (24FR841)

Description: A Late Prehistoric period campsite with Avonlea associations. The site appears to contain

buried cultural materials.

Location: The site is within the Woodhawk Watershed, Fergus County.

Significance: Regional

Source: Woodhawk Watershed Plan, Lewistown Field Office, 1997.

Name: Lost Terrace(24CH68)

Description: Lost Terrace is a Late Prehistoric period food and meat processing site. The site was excavated

in 1985-86 by Montana State University under a cooperative agreement with the BLM,

Lewistown Field Office.

Location: The site is located on private land within the UMNWSR.

Significance: Regional

Source: The Prehistoric and Aboriginal Utilization of Pronghorn Antelope: Lost Terrace Site (24CH68)

Prehistory in Western North American Macroperspective (Davis & Fisher, 1989).

Name: Hoffer Site (24CH669) Eagle Creek Confluence

Description: The Hoffer Site is a valuable cultural resource locality because of the high density of cultural

heritage-type manifestations and because of the long-term successive human use and re-use (A.D. 1300 - present date) of this favored habitat (Davis, 1989). The site was excavated and evaluated by Montana State University in 1987-88 under a cooperative agreement with the

BLM, Lewistown Field Office.

Location: The site is located on private land within the UMNWSR (Eagle Creek).

Significance: Regional

Source: Archaeology in Montana Vol. 30, #1& 2, 1989.

Name: Protohistoric Horse Pectoglyphs (24CH757) in Eagle Creek Canyon.

Description: The site consists of six panels, four of which depict horses, one of unknown theme, and one of

historic graffiti.

Location: The site is within the UMNWSR on private lands.

Significance: Regional

Source: Archaeology in Montana Vol. 30, # 1& 2, 1989.

Name: Keaster Site (24PH401)

Description: Prehistoric buffalo drive/trap.

Location: Missouri Breaks, Phillips county

Significance: Regional

Source: <u>Archaeology in Montana</u> Memoir #2, 1965.

Name: Holmes Terrace (24FR62)

Description: Middle and Late Prehistoric Period riverine campsite.

Location: Within UMNWSR on private land in Fergus County.

Significance: Regional

Source: Archaeology in Montana Vol. 23 # 2, 1982.

Name: Thompson Bottom (24CH452)

Description: Late Prehistoric bison and deer procurement area.

Location: Within UMNWSR on private land

Significance: Regional

Source: UMNWSR Cultural Resource Management Plan, 1992.

Areas of Historic Interest

Name: Indian Tribes of the Upper Missouri

Description: Lewis and Clark met some, but not all, of the tribes resident to the Upper Missouri. At the time

of their visit (1805-1806) the area west of the Yellowstone River was inhabited by Blackfeet,

Assiniboine, Gros Ventre (Atsina), Crow, Plains Cree and Plains Ojibiway.

Location: Various Significance: Regional

Source: Indian Life on the Upper Missouri (John C. Ewers), 1968.

Name: **Homesteading**

Description: Most of the Missouri River bottom was homesteaded during the early part of the 20th century or

left federal ownership through the Stockraising or Desert Land Acts. The Breaks contains the remains of several early agricultural developments on both public and private lands. On public land, the Ervin, Hagadone, Middleton and Nelson homesteads have standing structures that are eligible for the National Register and are within the UMNWSR. The Gilmore homestead is on

public land within the Missouri Breaks, but outside the UMNWSR boundary.

Location: Various within UMNWSR and Missouri Breaks

Significance: Regional

Source: BLM Cultural Resource Files - Lewistown.

Name: Treaty Sites/Peace Councils

Description: The confluence of the Judith and Missouri Rivers was the setting for two important peace

councils. In 1846, Catholic missionaries Father Pierre-Jean de Smet and Father Nicholas Point conducted mass for the Flathead and Blackfeet tribes to pacify relations between these traditional enemies. In 1855, Washington Territorial Governor Isaac Stevens conducted a treaty council with the Blackfeet, Flathead, Gros Ventre and Nez Perce. This treaty established boundaries and provided for railroads, roads, telegraph lines and military posts across northern

Montana.

Location: Confluence of Judith and Missouri Rivers on private land

Significance: Regional (1846) and National (1855)

Source: Middle Montana; An Historical Overview - S. Paul Okey.

Name: Fur Trade and Forts

Description: Immediately following the Lewis and Clark Expedition, fur traders, primarily based out of St.

Louis, began working their way up the Missouri to secure furs, either through trapping or through trade with the Indians. In addition, two Canadian-based British companies had established fur trade in the northern Great Plains and northern Rocky Mountains. With the influx of settlers and fur trappers to the area, Indian tribes, primarily the Blackfeet, kept the area in peril thus delaying the establishment of trading posts. In 1831, Fort Piegan was established at the mouth of the Marias. Many of the forts were short-lived, fluctuating with the trade relationship with the Blackfeet. In 1847, Fort Clay was established and was soon renamed Fort Benton. This fort became the most important trading center in what was to become Montana

and was the head of the navigation on the Missouri River.

Location: Various locations along river. More prominent forts discussed below.

Significance: Regional

Source: UMNWSR History Digest, 1989.

Name: Fort McKenzie

Description: This trading post was established in 1832 and operated until 1843. Maximilian von Wied and

painter Karl Bodmer stayed here in 1833.

Location: On private land within UMNWSR, 7 miles above the Marias R.

Significance: Regional

Source: <u>Archaeology in Montana</u> Vol. 14, #2, 1973.

Name: Fort Chardon

Description: When hostilities with the Blackfeet were renewed in 1844, a fur trader named Chardon with-

drew from Fort McKenzie and established a short-lived post, Fort Chardon, opposite the mouth of the Judith River. This lasted one season when another party was sent from Fort Union to recover the Blackfeet trade and established a new post about three miles upriver from present-

day Fort Benton.

Location: Mouth of Judith River

Significance: Regional

Source: UMNWSR History Digest, 1989.

Name: Kid Curry Hide-out

Description: Because of the inaccessibility and remoteness of the Breaks, many settlers with questionable

backgrounds were attracted to them. Among those was Harvey Logan, alias Kid Curry. Kid Curry was Montana's contribution to the era of bank robberies and train hold-ups. Curry was

allied with Butch Cassidy and the Sundance Kid.

Location: Phillips County, Montana

Significance: Regional

Source: UMNWSR History Digest, 1989.

Name: Camp Cooke

Description: Military fort to protect trade and settlers established in 1866 and closed in 1870.

Location: Mouth of Judith River

Significance: Regional

Source: History Digest, UMNWSR, 1982

Name: White Rocks Historic District

Description: Collection of natural features and cultural sites encompassing the White Rocks region of the

Missouri. A special feature included within the White Rocks Historic District is some historical graffiti. The U.S.S. Mandan was a government snag boat which worked on the Missouri from the 1880s to 1910. One of the crewmen aboard this ship painted "U S S Mandan" in a grotto

near Eagle Creek. The historic period graffiti is still visible.

Location: UMNWSR Significance: Regional

Source: National Register Nomination.

Name: Judith Landing Historic District

Description: The Judith Landing Historic District encompasses the PN ranch, Treaty sites, Camp Cooke,

Fort Chardon and Ferry Crossings.

Location: UMNWSR - Judith R., public and private land

Significance: Regional

Source: National Register Nomination.

Name: Dauphin Rapids Historic District

Description: This area was known as a dangerous stretch of river for steamboats, and often referred to in

their historic accounts.

Location: River miles 100 - 104

Significance: Regional

Source: National Register Nomination.

Name: Historic Agriculture Use/PN Ranch

Description: Fort Benton entrepreneur, T.C. Power established a store at the mouth of Judith River in the

early 1880s around which a small community grew. The area later became the headquarters of the PN Grazing Association. The stone store building (1884) and early 20th century ranch

house are among the several historic objects at this site.

Location: Fergus County, Montana (private land)

Significance: Local

Source: Archaeological and Historical Sites Survey, PN Bridge Area, Missouri Wild and Scenic River

Name: Cow Island Trail

Description: This early trail was part of the transportation network which supplied the Montana gold fields

in the 1860s and 1870s. Steamboats moved freight up the Missouri River to Fort Benton and bull trains distributed the goods. The Cow Island Trail was used to freight supplies from Cow

Island to Fort Benton when the river was too low for boats to reach Fort Benton.

Location: Chouteau County, Montana (private and public land)

Significance: Local

Source: Ft Benton - World's Innermost Port, Overholzer, 1987.

Name: Stafford and Virgelle Ferries

Description: Only three ferries remain in operation on the Upper Missouri, although there were once about

two dozen. Two of the remaining three ferries are within the UMNWSR corridor. The Stafford Ferry (known as McClelland Ferry on north bank) began as a private ferry in 1915 and was replaced by a county ferry in 1939. The Virgelle ferry started in 1913. Both are cable ferries

run by diesel tractor engines.

Location: Significance:	Stafford Ferry connects Fergus and Blaine Counties; Virgelle Ferry is in Chouteau Co. Local
Source:	Billings Gazette, Sunday July 17, 1994, Section E

Areas of Geologic Interest

Name: Eagle Sandstone Formation

Description: A light gray to buff colored coarse grained sandstone with ferruginous concretions. It was

deposited as beach and barrier facies during regression of an inland sea that covered the central area of the North American Continent during the Cretaceous Period. The formation derives its name from, and is located on, Eagle Creek at its confluence with the Missouri River. It weathers to form statuesque features, arches and hoodoos. Some of the natural features carved from this formation are Eye of the Needle, Hole in the Wall, Steamboat Rock and Seven Sisters.

Location: White Rocks portion of the Upper Missouri Wild and Scenic River, from Virgelle to the mouth

of Arrow Creek. .

Significance: Regional

Source: Perry, E. S. 1962

Name: **Judith River Formation**

Description: Gray to Yellowish, massive sandstone interbedded with silty mudstones and lignites containing

a wide variety of fossil flora and fauna. It formed as a lagoonal deposit when there were many river deltas and tidal flats on the edge of the transgressing Bearpaw sea during late Cretaceous time. It is an abundant source of petrified wood and invertebrate fossils, and extensive vertebrate bone beds also exist. Some duck bill dinosaur finds from this formation are on display at

the Museum of the Rockies in Bozeman, Montana.

Location: The formation is named for, and is located at, the mouth of the Judith River near PN Bridge.

Significance: Regional

Source: Horner, 1988; Perry, E.S., 1962.

Name: **Bearpaw Formation**

Description: Dark gray to black thinly bedded shale with calcareous concretions. It was deposited in the

deepwater environment of the cretaceous sea. It is a source of marine shellfish fossils known as amonites and bauculites. Marine reptiles called plieseosaurs and mosasaurs have also been

found.

Location: The exposed formation starts in the Cow Creek area and extends downstream to Fort Peck

Dam.

Significance: Regional

Source: Horner, 1988; Perry, E. S., 1962.

Name: Hell Creek/Lance Formation

Description: Dark gray to red and green sandstones, siltstones, carbonaceous shales and lignites are present.

They were deposited in a lowland area after the last regression of the Cretaceous age Bearpaw sea. These are the latest Cretaceous-aged rocks exposed in the sequence of fossilized beds and

are the source of the T-Rex specimens on display at the Museum of the Rockies.

Location: Lower Missouri River Area including the Charles M. Russell Wildlife Refuge.

Significance: Regional

Source: Archibald, 1982; Horner, 1988.

Name: Alkalic Intrusions

Description: These fine-grained igneous rocks, dominated by dark-colored minerals occur as dikes, sills and

stocks injected into fractures in the cretaceous age sandstones and shales. They range in age from Tertiary to late Cretaceous. They are more resistant to weathering than the enclosing sedimentary rocks causing them to form promontory features in the surrounding terrain. Some of these that have been named along the river are Dark Butte, LaBarge Rock, Citadel Rock and Pilot Rock. Some of the natural features north of the river are Eagle Buttes, Birdtail Butte and

Chimney Rock.

Location: From the Bears Paw Mountains on the north to the Highwood Mountains on the south. They

occur throughout the Missouri Breaks but are more visible in the White Cliffs area due to the

color contrast.

Significance: Local

Source: Hearn Jr., B. C., 1989.

Name: Baker Monument

Description: An erosional remnant of a volcanic vent rising about 180 feet above the surrounding terrain on

state lands. Geologically it is one of about 35 features described as diatremes that occur between the Highwood Mountains to the west and the Little Rocky Mountains to the east. The mineral composition of the igneous centers are similar to diamond bearing kimberlites that produce diamonds in other parts of the world. Although diamonds have yet to be found, these

features constitute the emphasis of mining exploration in the Missouri Breaks area.

Location: Located on state lands, south side of the Missouri River along Two Calf Creek.

Significance: Regional

Source: Hearn, Jr., B.C., 1989.

Name: Saskatchewan Butte

Description: An erosional remnant of a volcanic vent rising about 200 feet above the surrounding terrain

located on federal land. The Butte is about 10 acres in size and has potential for gemstone occurrence. It is typical of other features described as the Missouri Breaks Diatremes in numerous professional papers and mineral reports prepared by the U.S. Geological Survey and Bureau

of Mines..

Location: North side of Missouri River, on BLM land near Bull Creek.

Significance: Regional

Source: Hearn, Jr., B.C., 1989.

Areas of Biological Interest

Name: **Judith River Riparian Area**

Description: The Judith River has been described as one of the few remaining fully functioning cottonwood

gallery forest ecosystems on the Northern Plains. This freeflowing river has a vibrant cotton-

wood community along its banks that shelters many species of wildlife.

Location: Lower Judith River. About 70 percent of the river bottoms are private land although the

surrounding canyon slopes are mostly BLM.

Significance: Regionally, possibly nationally significant riparian community. The Judith River is eligible for

Wild And Scenic River status.

Source: Inventory and Classification of Eastern Montana Riparian Communities, Hansen and Phister,

1990.

Name: Arrow Creek Riparian Area

Description: Arrow Creek, called Slaughter River by Lewis and Clark, is a mid-sized tributary of the Missouri

River. Rising near the Highwood Mountains it flows east then north to the Missouri. With no dams to regulate flow, the majority of the riparian communities along Arrow Creek are healthy and diverse. The bleak badland terrain along the breaks of Arrow Creek yield to the vibrant

green of cottonwood trees and willows along its banks.

Location: The lower reaches of Arrow Creek along the Fergus/Chouteau County boundary. A significant

portion of the bottom land is in private ownership, and the last five miles is mostly state-

owned. The majority of the "badlands" on either side of the stream is BLM.

Significance: Regional

Source: Inventory and Classification of Eastern Montana Riparian Communities, Hansen and Phister,

1990.

Name: Diversity of Vegetative Communities

Description: The combination of Missouri Breaks and Missouri River vegetation communities results in an

impressive variety. The Missouri Breaks is a unique landscape composed of mostly timbered coulees and drainages leading from the higher plains down to the Missouri or its tributaries. These timbered draws are composed of ponderosa pine and/or Douglas fir with a smaller component of Rocky Mountain juniper. An understory of various native grasses and forbs exists. Ridgetops and benches in the area support the sagebrush/prairie grassland communities typical of the Northern Great Plains/Northern Rockies. River communities show a wide variety of vegetative types with some examples being cottonwood gallery forest types, green ash climax

type, silver sagebrush and black greasewood types and many others.

Location: Throughout the Missouri River Breaks area. Mostly on public land with a much smaller

percentage on state and private land.

Significance: Regional.

Source: Inventory and Classification of Riparian Vegetation in Eastern Montana, Hansen Phister, 1990,

USDI - BLM Missouri Breaks Grazing Environmental Impact Statement, 1979.

Name:

Wildlife

Description:

The variety of vegetation along the river and it associated areas provides habitat for a diverse wildlife population. More than 60 mammals, 233 species of birds and 20 species of amphibians and reptiles inhabit these areas. The river itself is home to 48 species of fish ranging from the half-ounce minnow to the 140 pound paddlefish

Mammals: The area between the river's edge and the mixed forested, sagebrush steppe and agricultural land along the canyon rims provides valuable habitat for several species of mammals. Probably the most significant of these mammals are the special status black tailed prairie dog and five big game animals: bighorn sheep, elk, mule deer, whitetail deer and pronghorn antelope. The canyon areas also provide habitat for predator species. Mountain lions appear to be doing well in the breaks portions of the corridor.

Birds: Of the 233 species of birds that inhabit the corridor, the bald eagle is on the T&E list and the peregrine falcon and mountain plover are considered special status species. The cliff faces provide perching and nesting habitat for many raptors and other birds. The more significant and abundant of the cliff nesters (golden eagle, prairie falcon, sparrow hawk, and Canada geese) are using some of the cliffs adjacent to water to nest in. There are four species of upland game birds present in the corridor: gray partridge, sharp-tailed grouse, sage grouse, and ringnecked pheasant. Two other species along the river are the white pelican and the great blue heron.

Fish: Forty-eight species of fish are found in this area of the Missouri River and its tributaries. Of these, the pallid sturgeon is on the T&E list and five are considered to be special status species: blue sucker, paddlefish, sauger, sicklefin chub, and sturgeon chub. Walleye, channel catfish, and shovelnose sturgeon are also present.

Location:

River corridor and surrounding environments.

Significance:

Regional

Source:

Upper Missouri National Wild and Scenic River Management Plan Update, 1993; Bill Gardner - Montana Fish Wildlife and Parks - Fisheries Biologist, 2000; Personal observation Lewistown Field Office Wildlife Biologist, summer, 2000.

Name:

Threatened and Endangered Fish - Pallid Sturgeon

Description:

Pallid sturgeon were listed as federally endangered in 1990. This species has also been listed as a Montana Species of Special Concern (MSSC) since the list was first started in 1979. The first record of pallid sturgeon in the Missouri dates back to the late 1880s. It is believed that construction and operation of Canyon Ferry, Tiber, and Fort Peck dams/reservoirs have altered habitat and fragmented pallid sturgeon populations to the point that they are now threatened with extinction. Pallid sturgeon recovery is in its initial stages and consists of protection of the gene pool by stocking hatchery-reared fish and re-creating the important spring pulse of the Marias River.

Location:

Various habitat areas along.

Significance:

National

Source:

Bill Gardner Montana Fish Wildlife and Parks Fisheries Biologist 2000

Name: Threatened and Endangered Bird - Bald Eagle

Description: Bald Eagles have historically nested on the Missouri River and there are at least two known

long-term active nests in the corridor. There is suitable habitat to support additional bald eagle nests on the river. One limiting factor may be the distribution of stands of large cottonwoods along the river. The Missouri River corridor is an important stop for spring and fall migrant

eagles that nest further north.

Location: Various habitat along river corridor.

Significance: National

Source: Woodhawk Watershed Management Plan 1997; West HiLine RMP MSA 1988 Personal obser-

vation Lewistown Field Office Wildlife Biologist summer of 2000.

Name: Special Status Mammal - Black Tailed Prairie Dog

Description: The black tailed prairie dog was eligible for listing but precluded by the USFWS in February

2000. Even though prairie dog towns are limited due to topography, the opportunity for black-footed ferret occupation and other species associated with prairie dog towns (burrowing owls, ferruginous hawks, and mountain plovers) exists. Prairie dog towns provide unique habitat that attracts a large number of wildlife species, particularly predators such as coyotes

and badgers.

Location: Small towns scattered throughout the corridor, primarily in the Bullwhacker and Cow creek

drainages

Significance: Regional

Source: Judith Valley Phillips RMP EIS 1992, West HiLine RMP MSA 1988; Personal observation

Lewistown Field Office Wildlife Biologist summer, 2000; USFWS Endangered Species Web

Information Page.

Name: Special Status Bird - Peregrine Falcon

Description: The Peregrin Falcon is one of the few species to be de-listed from T&E status. The Missouri

River corridor has excellent potential to support breeding pairs of peregrine falcons put none have been positively identified at this point. Several adult peregrines have been seen near the river in the last few years. Approximately 24 young peregrines have been released at a hack site on the Missouri River since 1993 and there are at least two other hack sites in the Fergus

county area that have released similar numbers of birds.

Location: Cliff nesting sites along the river corridor provide potential habitat.

Significance: Regional

Source: Personal observation Lewistown Field Office Wildlife Biologist summer, 2000; USFWS Endan-

gered Species Web Information Page; Personal communication, Ralph Rogers (local peregrine

coordinator); Woodhawk Watershed Management Plan 1997.

Name: Special Status Bird - Mountain Plover

Description: This species is proposed to be listed as threatened by the USFWS. Mountain plovers would

most likely occur on shortgrass prairie habitat which is very limited in the Upper Missouri River Breaks corridor, but they are also known to nest on or near prairie dog towns. They are attracted to the prairie dog town due to the lack of vegetative cover and abundant insects that

consume prairie dog dung.

Location: No direct observations documented to date. Potential habitat on any of the prairie dog towns

in the corridor, particularly on the larger towns in Bullwhacker and Cow Creek drainages

Significance: Regional

Source: Personal observation Lewistown Field Office Wildlife Biologist summer, 2000; USFWS Endan-

gered Species Web Information Page; Draft Biological Assessment for the Montana/Dakotas

OHV EIS 2000.

Name: Special Status Fish - Sauger

Description: The sauger is a game fish that was added to the MSSC list in June 2000 because of the wide-

spread declines in sauger populations throughout Montana. This designation recognizes that sauger are more vulnerable to relatively minor disturbances to its habitat and deserves careful monitoring of its status. A severe decline in sauger numbers was first noticed in 1989. Populations remained very low through 1997, especially in the reach between Great Falls and at the confluence of the Judith River. The drought conditions in the late 1980s and early 1990s are

thought to have been the reason for the decline.

Location: The sauger is commonly found throughout the Missouri River and its tributaries

Significance: Regional

Source: Bill Gardner Montana Fish Wildlife and Parks Fisheries Biologist 2000.

Name: Special Status Fish - Paddlefish

Description: Paddlefish is a very popular game found in the Breaks portion of the river. Because of its

biological vulnerability, it was placed on the original MSSC list in 1979. Paddlefish once migrated up the Marias River, however, recent surveys have failed to confirm their presence there. It is believed that operations of Tiber Dam have contributed to their abandonment of this tributary stream. Evidence of spawning has been documented as far up river as Coal Banks, although the bulk of spawning probably occurs down river of Cow Creek. The paddle-

fish population in the Missouri appears to be stable.

Location: Paddlefish are most commonly found seasonally in from Fort Peck Reservoir to Coal banks

during the spawning season (May-July).

Significance: Regional

Source: Bill Gardner Montana Fish Wildlife and Parks Fisheries Biologist 2000.

Name: Special Status Fish - Blue Sucker

Description: Because of the Blue Sucker's biological vulnerability it was listed as a MSSC in 1994. The

species prefers sections of river with large substrates and steep gradients, such as the White Rocks section. The blue sucker conservation status here is steady, however, there does not appear to be normal numbers of juveniles. Comparisons of size (age) structures over the past

20 years indicate the population is stable with low recruitment.

Location: Blue suckers have been found throughout the Missouri and Marias Rivers

Significance: Regional

Source: Bill Gardner Montana Fish Wildlife and Parks Fisheries Biologist 2000

Name: Special Status Fish - Sicklefin Chub

Description: Sicklefin chub were found in the Missouri in 1979. Because of significant declines throughout

its range, it was petitioned for federal protection in 1990. Presently, USFWS is under litigation for not listing this species. Sicklefin has been classified as a MSSC since 1979. Populations

appear to be stable.

Location: This species is found in moderate numbers from Cow Creek to Fort Peck Reservoir. They are

only found in the Missouri River, preferring turbid water and deep water areas with sand bars.

Significance: Regional

Source: Bill Gardner Montana Fish Wildlife and Parks Fisheries Biologist 2000

Name: Special Status Fish - Sturgeon Chub

Description: Sturgeon chub were found in the Missouri in 1979. Because of significant declines throughout

its range, it was petitioned for federal protection in 1990. Presently, USFWS is under litigation

for not listing this species. Sturgeon Chub has been classified as a MSSC since 1979.

Location: Cow Creek to Fort Peck Reservoir. They are also found in some tributaries, preferring turbid

water and deep water areas with sand bars.

Significance: Regional

Source: Bill Gardner Montana Fish Wildlife and Parks Fisheries Biologist 2000.

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